

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/800,002	TOBINAI ET AL.	
	Examiner	Art Unit	
	Anh T.N. Vo	2861	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>3/12/2004</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to an applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The following changes have been made in a subject of the application to place the claims in a condition for allowance:

***Claim***

In claim 1:

- Line 7, inserted --a-- before "part".
- Line 10, inserted --to-- before "decrease".

In claim 18:

- Line 7, inserted --a-- before "part".
- Line 10, inserted --to-- before "decrease".

The above change was made to place the application in better condition for allowance.

***REASONS FOR ALLOWANCE***

The following is an Examiner's Statement of Reasons for Allowance:

Claims 1-17 are allowed because none of the prior art references of record teaches an ink flow control device for a printer having at least one print head comprising a diaphragm that is carried by a main body and defining at least part of a pressure receiving chamber on one side of the diaphragm that forms a part of the ink flow passage and a reference chamber on the other side of the diaphragm and a valve that includes a valve seat with a bore defining a portion of the ink flow passage, a valve head movable relative to and selectively engageable with the valve seat

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to at least substantially restrict ink flow through the bore when the valve head is engaged with the valve seat and to permit ink flow through the bore when the valve head is not engaged with the valve seat, the valve head being moved relative to the valve seat by movement of the diaphragm to control ink flow through the ink flow passage at least in part by the movement of the diaphragm in the combination as claimed.

Claims 18 is allowed because none of the prior art references of record teaches an ink flow control device for a printer having at least one print head comprising a diaphragm that is carried by a main body and defining at least part of a pressure receiving chamber on one side of the diaphragm that forms a part of the ink flow passage and a reference chamber on the other side of the diaphragm and a valve that controls the flow of ink through the ink flow passage to the print head and operably connected to the diaphragm for movement by the diaphragm to permit ink flow to the print head when the print head is operating to discharge ink for printing and to at least substantially restrict ink flow when the print head is not printing in response to changes in pressure produced by operation of the print head and applied through the ink to the diaphragm in the combination as claimed.

### **CONCLUSION**

Any comments considered necessarily by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:00 A.M. to 7:00 P.M.. The fax number of this Group 2800 is (571) 273-8300.

  
ANH T.N. VO  
PRIMARY EXAMINER  
12/22/15